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APPLICATION NO. 09/826,117

INVENTION:

Hybrid Complex Walsh Codes for CDMA

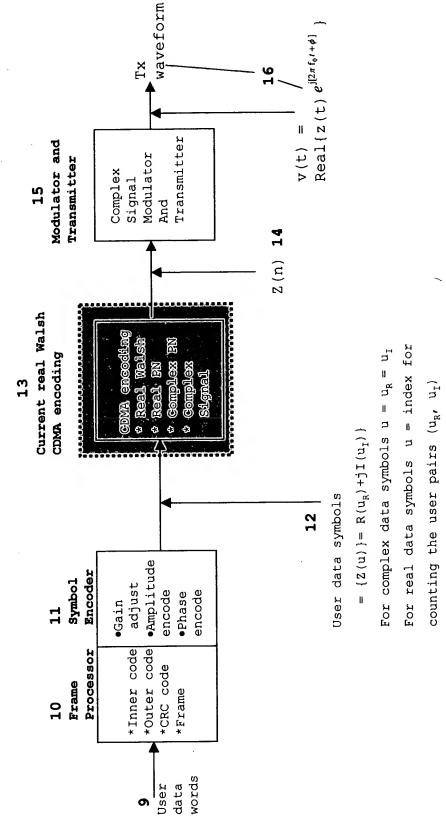
INVENTOR:

Urbain A. von der Embse

DRAWINGS AND PERFORMANCE DATA



Block Diagram CDMA Transmitter: FIG. 1



User

FIG. 1 CDMA Transmitter: Cellular Application

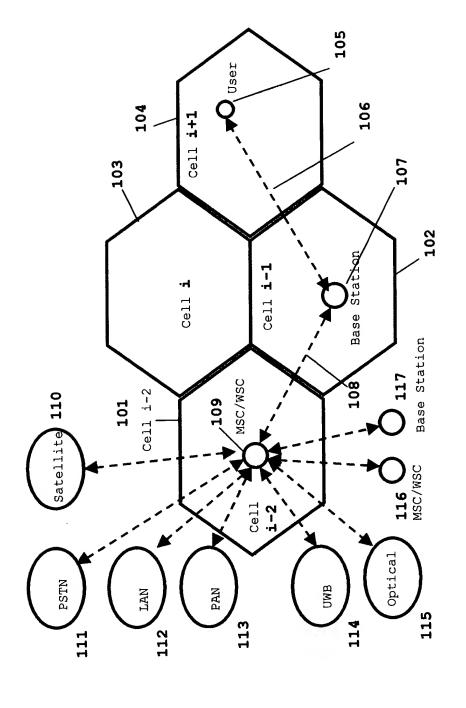


FIG. 2 Real Walsh CDMA Encoding

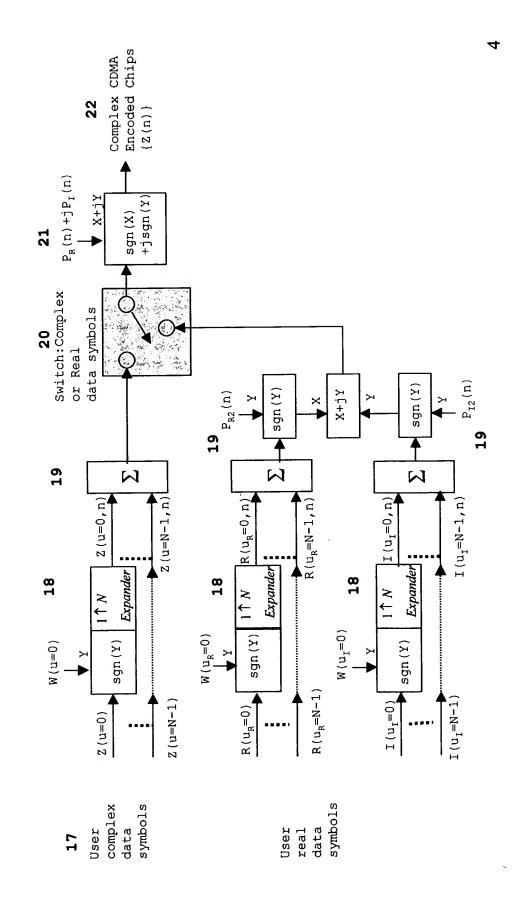


FIG. 2 CDMA Transmit Signal Processing

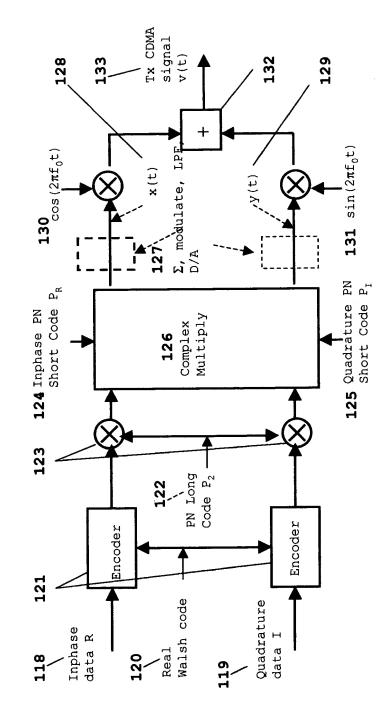


FIG. 3 CDMA Receiver Block Diagram

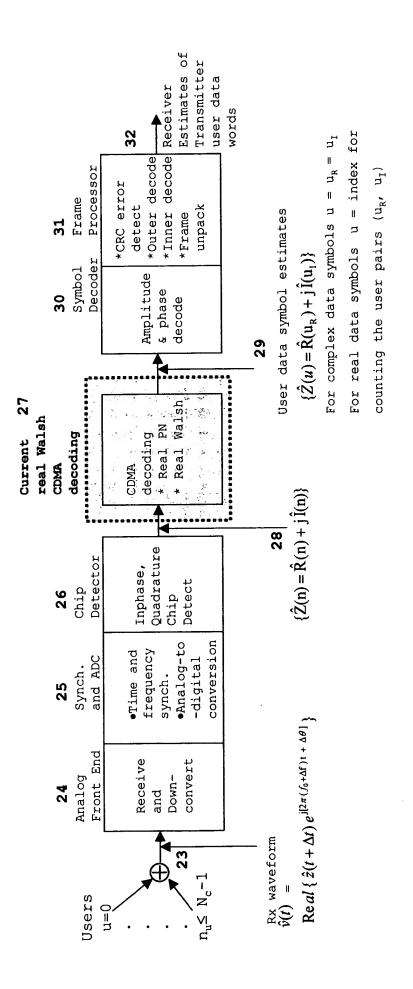


FIG. 3 CDMA Receive Signal Processing

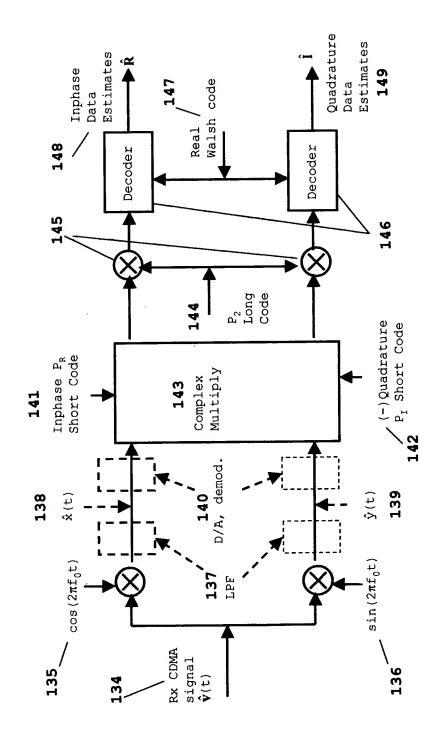
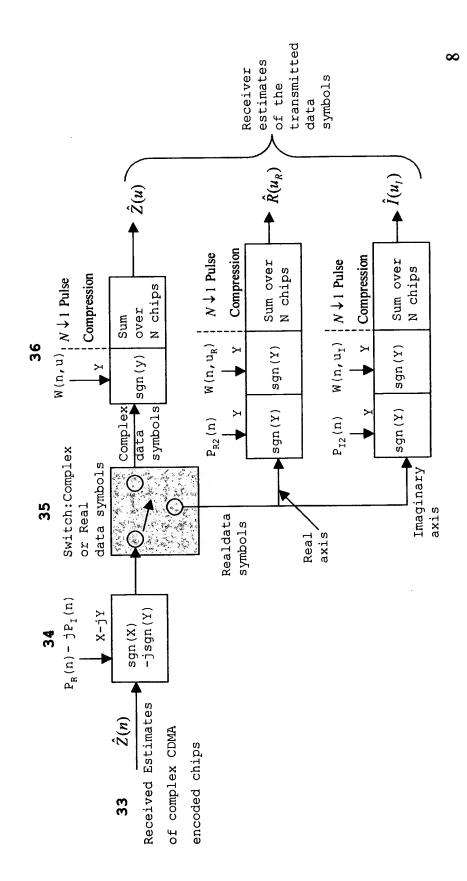


FIG. 4 Real Walsh CDMA Decoding



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FIG. 5 Correlation of Fourier Codes with DFT Codes for N=32

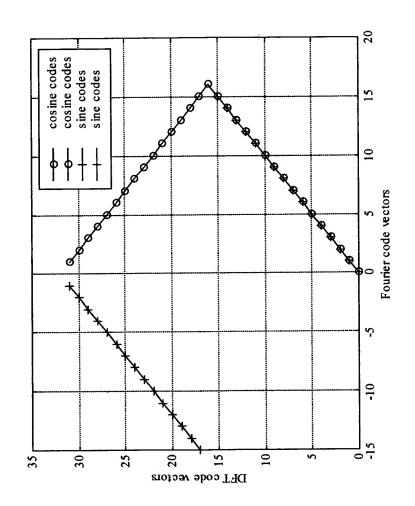


FIG. 5A Hybrid Walsh Implementation Algorithm

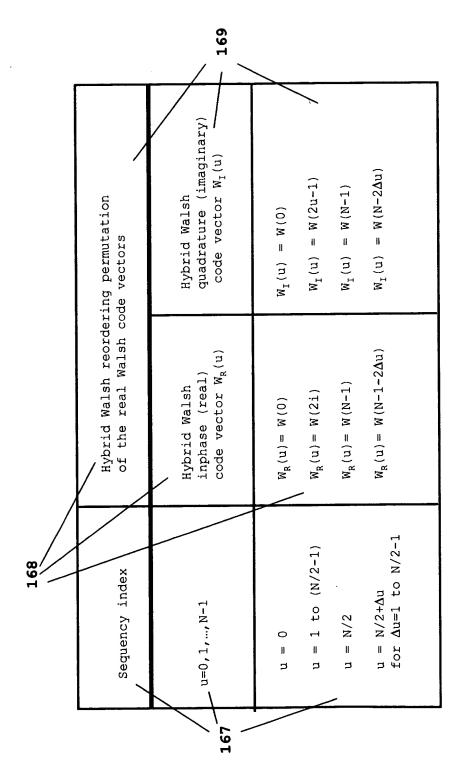


FIG. 5B Hybrid Walsh Implementation Algorithm

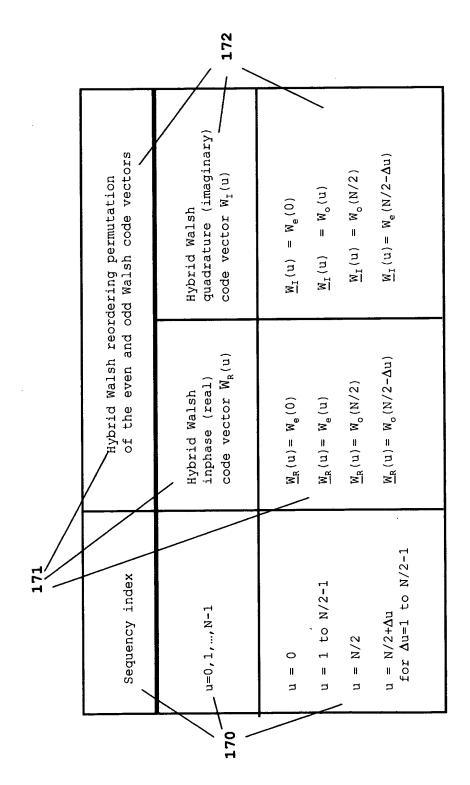
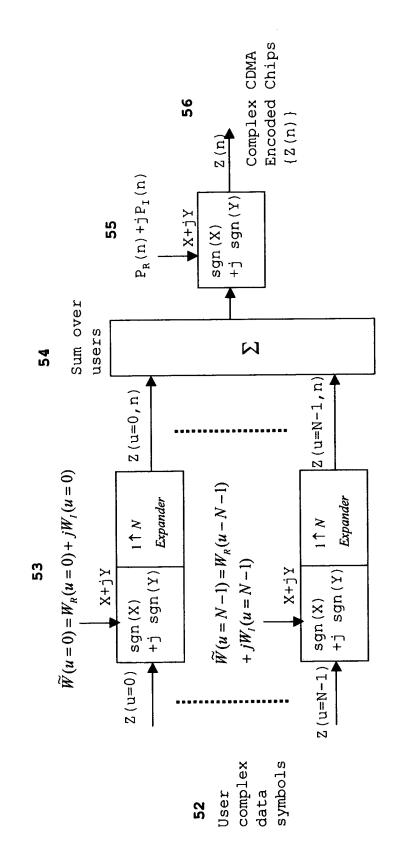


FIG. 6 Complex Walsh CDMA Encoding



Hybrid Walsh Transmit Signal Processing ဖ FIG.

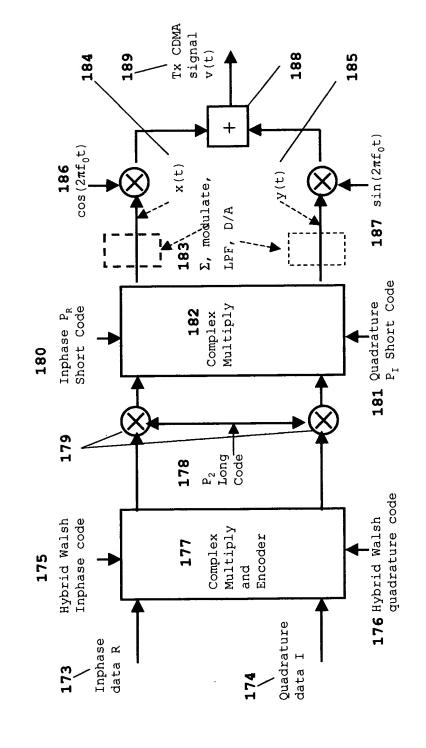


FIG. 7 Complex Walsh CDMA Decoding

